

HISTORICAL SKETCH

OF

The Philosophical Society

OF

WEST CHESTER, PA.

EXTRACTED FROM THE MINUTES

BY A COMMITTEE APPOINTED FOR THAT PURPOSE,

SEPTEMBER 22, A. D. 1881.

ADOPTED THURSDAY, NOVEMBER 10, 1881.

PRICE, . . . 10 CENTS.

WEST CHESTER, PA.:
REPUBLICAN STEAM-POWER BOOK AND JOB PRINT,
1881.

PRESENT ORGANIZATION.

Emeritus President,

HON. JOSEPH J. LEWIS.

President,

REV. ROBERT J. CARSON.

First Vice-President,

JOSEPH W. BARNARD, Esq.

Second Vice-President,

COL. WILLIAM W. STOTT.

Recording Secretary,

JAMES MONAGHAN, Esq.

Corresponding Secretary,

MR. JEROME B. GRAY,

Treasurer,

MR. GEORGE HEED.

Finance Committee,

JOSEPH W. BARNARD, Esq.,
MR. HENRY BUCKWALTER,
MR. GEORGE HEED.

Business Committee,

PROF. RICHARD DARLINGTON, Ph. D.,
C. WESLEY TALBOT, Esq.,
CURTIS H. HANNUM, Esq.

Curator,

MR. FRANK L. McCLURG.



THE Philosophical Society of West Chester, Pennsylvania, being in the fourth year of its existence, and having given evidence of greater permanency than is usually the fortune of such associations in small communities, it has been deemed proper to preserve some historical account of its rise and progress, and the range of its intellectual view.

A full copy of the minutes would occupy too much space and would contain matter not of enduring interest.

A synopsis of its work thus far as exhibited in the subjoined catalogues, will, when taken in connection with a summary statement of facts extracted from the minute books, illustrate, in a methodical manner, all that is thought worthy of preservation.

West Chester, true to its ancient proclivities, abounded with Lyceums, Clubs, Coteries, Guilds, and Literary Societies, and a Microscopical Society had been successfully inaugurated, when, in the spring of 1878, several gentlemen recognizing the need of a Society of larger aims, which should embrace within its scope the entire field of contemplation and research, as well as *vision*, and include a microscopical annex, met together at private offices, framed a Constitution; By-Laws, and an Order of Business, and with thirty-five original signatures thereto, entitled their association "The Philosophical Society of West Chester, Pennsylvania."

At a meeting held at the office of C. Wesley Talbot, Esq., May 2, 1878, with the Hon. J. Smith Futhey as Chairman, and Mr. Jerome B. Gray, as Secretary, the following gentlemen were appointed to name persons to be voted for as officers, viz.:—Hon. Wm. Darlington, Oliver Sidwell and C. Wesley Talbot, Esqs., and John R. McClurg, M. D. This committee nominated the following gentlemen who were afterwards voted for and unanimously elected, to wit:—

President—HON. JOSEPH J. LEWIS.

Vice-President—JOHN R. HOSKINS, M. D.

Recording Secretary—WILLIAM S. WINDLE, Esq.

Corresponding Secretary—MR. JEROME B. GRAY.

Treasurer—MR. SENECA G. WILLAUER.

The field of research was then divided into Sections, and Chairmen assigned to many of them by a committee for that purpose, consisting of Hon. Joseph J. Lewis, Hon. Wm. Darlington, Hon. J. Smith Futhey and Dr. McClurg.

At a meeting held May 11, 1878, at the office of Curtis H. Hannum, Esq., President Lewis announced the Sections and Chairmen thereof as follows, viz.:

1. Cosmology and Theology,
REV. JOHN BOLTON.
2. Ethics and Moral Philosophy,
REV. BENJAMIN T. JONES.
3. Jurisprudence,
HON. JOSEPH J. LEWIS.
4. History,
HON. J. SMITH FUTHEY.
5. English Literature,
JOHN J. PINKERTON, Esq.
6. Greek and Roman Literature,
H. TOWNSEND FAIRLAMB, Esq.
7. Statics and Dynamics,
WILLIAM HENRY DARLINGTON, Esq.
8. Physiology,
JOHN R. HOSKINS, M. D.
9. Biology,
JOHN R. McCLURG, M. D.
10. Psychology,
ALFRED P. REID, Esq.
11. Natural Philosophy,
C. WESLEY TALBOT, Esq.
12. Political Economy,
R. JONES MONAGHAN, Esq.
13. Philology,
JOSEPH W. BARNARD, Esq.
14. Mathematics,
WILLIAM S. WINDLE, Esq.
15. Meteorology,
RICHARD DARLINGTON, PH. D.

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| 16. Archæology and Anthropology, | EDWIN A. BARBER, Esq. | |
| 17. Botany, | WILLIAM T. HAINES, Esq. | |
| 18. Microscopy, | JOHN R. McCLURG, M. D. | |
| 19. Music, | DR. GEORGE G. CARDWELL. | |
| 20. Poetry, | MR. SLATER B. RUSSELL | |
| 21. Crimes and Criminal Procedure, | OLIVER SIDWELL, Esq. | |
| 22. Agricultural Chemistry, | MR. CHARLES P. HEWES. | |
| 23. Practical Agriculture, | MR. R. HAINES PASSMORE. | |
| 24. Astronomy, | 25. Indian Antiquities, | 26. Medicine, |
| 27. Numismatics, | 28. Geology, | 29. Finance, |
| 30. Mineralogy, | 31. Navigation and Commerce, | 32. Conchology, |
| 33. Entomology, | 34. Zoology, | 35. Architecture, |
| 36. Ornithology, | 37. Acoustics, | 38. Oology. |

Thus at the very outset of its career this Society was equipped for business with twenty three out of its thirty-eight chairs filled with active men, twenty of whom have acted professionally in the several departments assigned to them by the original committee, showing a commendable alacrity and zeal. To the foregoing was added, by a vote of the Society of September 9, 1880, a new Section entitled, "The Pennsylvania Bi-Centennial," Hon. Joseph J. Lewis, Chairman.

The Business Committee, having raised the necessary funds, leased handsome and commodious rooms on second floor of No. 40 West Gay St., West Chester, fitted-up, carpeted and furnished the same in a suitable manner.

A number of gentlemen belonging to this Association procured the latest improved microscopes and the Society began its regular general meetings at that place May 23, 1878, where sessions have been held with great regularity on the second and fourth Thursdays of each month down to the present time—a period of about three and-a half years.

The Microscopical Department went into active and brilliant operation at the first meeting, and has uniformly maintained a high standard of excellence.

This has been a popular feature that has not only afforded employment for some members who did not desire to take part in the general proceedings, but

has proved an attraction to guests of the Society, who are freely and cordially admitted and welcomed to all meetings.

On January 28, 1879, it was ordered, by a vote of the Society, that the Secretary be directed to file, whenever practicable, copies of all lectures delivered before the Society. It is believed that this has been done to a limited extent, while many of them have been published in the local papers at full or in abstract.

Many of the most valuable papers, involving great original research, and being models of arrangement and elegance of diction, have not been publicly mentioned, or, if mentioned, have been so inadequately reported that but little idea of their contents or value has been as yet conveyed to those not present.

A catalogue is herewith given which will exemplify the truth of these comments:—

On May 8, 1879, the first anniversary of the Society was celebrated in a very handsome manner,—thirty-seven (37) microscopes were mounted and two additional rooms were occupied by the display. Delegations from other Societies were present, together with about two hundred other guests. The tables were decorated with flowers, which, with the glitter of instruments, the flash of lights, and the beaming countenances of interested spectators, served to make up a very brilliant and animated scene.

The Musical Department, under Dr. George G. Cardwell, Chairman of that Section, went into active operation Oct. 9, 1879, and was for some time afterwards maintained. It is the desire of the Society to employ that delightful adjunct from time to time as may be deemed appropriate to the special occasion.

The Hon. Henry C. Carey, who had recently been elected an honorary member, having deceased, eulogistic resolutions relating to his life, character and works were, on Oct. 23, 1879, spread upon the records of the Society.

A further loss was sustained in the person of Hon. William Darlington, an active member, who died December 6, 1879, and on the 11th of same month similar action was taken by the Society, and its resolutions were likewise spread upon the records, whereupon suitable remarks were made by different members in attendance. The Society then ordered the preparation of a memorial, by a special committee appointed for that purpose, who reported on January 8, 1880, an acceptable memorial, which has been since privately printed in pamphlet form. This has been greatly condensed and availed of by Messrs. Futhey and Cope to answer the purposes of a biographical notice in their late history of Chester County.

In December, 1880, the Society lost another valuable and promising member by the death of Lieut. Henry Clay Nields, U. S. N., who had commenced to instruct the Society on the subject of Navigation, and was also a microscopist

of great industry. Suitable memorials of him were read at a meeting held December 23, 1880.

Upon invitation of the Microscopical Society of West Chester this Society attended their reception held at Horticultural Hall, West Chester, November 20, 1879, on which occasion that large building was filled with a very extensive and brilliant display of exhibits, to which many other Societies contributed, and the unprecedented novelty of such an exhibition in West Chester aroused popular attention and attracted a great throng.

This Society received from the Microscopists of West Chester, on December 27, a most courteous letter acknowledging the acceptable part of which we had taken in aid of our sister Society on that occasion.

A similar event occurred when this Society, upon invitation, attended the reception of the Microscopical Society of Camden, New Jersey, April 15, 1880. Also, when this Society attended by invitation the Soiree of the "Academy of the Natural Sciences," Philadelphia, Oct. 15, 1880, taking with us fourteen microscopes. Other invitations and courtesies of like character have been received from "The Society of Natural Science," at Reading, Pa., and from the "Microscopical Society of Lancaster," Pa.

Notice has also been taken of us by our present Representative in Congress, the Hon. William Ward, who has from time to time forwarded valuable contributions of documents, &c.

Such fraternal recognitions are among the highly prized amenities which have cheered our efforts, and go to prove that the pursuit of knowledge is not divorced from the social side of life, but, on the contrary, is indissolubly inter-married with it.

On May 13, 1880, the second anniversary of the Philosophical Society of West Chester was duly celebrated, on which occasion there were present delegations from the Microscopical Societies of West Chester, Lancaster, Camden, N. J., and Wilmington, Delaware. Sixty-one Microscopes were mounted, and everything connected with it far excelled that of the first anniversary, before described.

No further elaborate anniversary exercises have been had, owing to the illness of the proper officers in May, 1881, and the consequent neglect to make timely preparations. Nevertheless it was the occasion of a brilliant illustrated lecture on the "Circulation of the Blood," by Prof. Holman, of Philadelphia, aided by a powerful projecting microscope which threw all objects distinctly against the white wall, which served as a screen or background. A large audience was in attendance.

At the beginning of the third year, the Hon. Joseph J. Lewis, who had hitherto held the office of President, owing to failing vision, retired from office and was made Emeritus President, but he continued to sustain the Society by

his powerful aid, and has been always ready to propound or to discuss problems, and has contributed valuable papers dictated to and read by his amanuensis and others.

An election held in May, 1880, resulted in choosing the following officers, viz.:—

President—PROF. RICHARD DARLINGTON, PH. D.

First Vice-President—WILLIAM T. HAINES, Esq.

Second Vice-President—REV. JOHN BOLTON.

On September 23, 1880, the rooms of the Society were visited by a delegation from the “Bi-Centennial Association of Philadelphia,” composed of Edward Shippen, Esq., Dr. Hinkle, Dr. Atkinson, J. J. Weaver, J. C. Thompson, Charles W. Alexander, Esqs., Prof. A. J. Ourt, Prof. J. W. Burns and others. After appropriate addresses of welcome on behalf of this Society, Edward Shippen delivered an address setting forth fully the objects and aims of that Association, making apt allusions to the illustrious Founder of this Commonwealth, and to the governmental principles inaugurated in practice by him, and the ultimate incorporation of the same into our general polity.

Prof. J. W. Burns, Dr. Atkinson, and the venerable Eli K. Price, who chanced to be present among the audience, followed with felicitous remarks expressing similar sentiments, and commending the celebration of the Bi-Centennial, as proposed

A general idea of the extent of the work already accomplished by the Philosophical Society of West Chester will be conveyed by the statement that eighty meetings have been held, and eighty lectures have been delivered at those meetings, sixty-five of which were by members, and fifteen by invited guests—besides numerous readings which have from time to time been had.

That twenty-eight debates, covering a great variety and range of topics, have been had. That fifty stated questions or problems have been propounded and all of them responded to or answered, save a very few, which remain outstanding to be answered in due order.

That the total membership is upwards of one hundred, of whom at least forty may be classed as active and constant.

That the Society has no debts, having paid for its current expenses and the property acquired, consisting of Book Case and contents, Tables, Chairs, Lamps, Stands, &c., mentioned in the annexed schedule, and of the value of upwards of three hundred dollars besides those Microscopes, Chairs, &c., contained in the rooms which belong to individual members, all of which will duly appear in detail by the subjoined lists.

The Constitution, By-Laws and Order of Business, with the signatures of the original members is here given, to wit.:—

CONSTITUTION.

PREAMBLE. Inasmuch as a Society devoted to research, and so conducted as to give frequent, united and emphatic expression to the views and aims of the Association, must at all times have a beneficial influence in elevating the standard of education; for promoting the usefulness, honor and interest of the members; for exciting and encouraging emulation and concert of action, and for fostering friendly intercourse between those who are engaged in it. Therefore; be it

Resolved, In behalf of the objects and aims above mentioned, we do agree to unite ourselves and constitute a permanent Society, and that for the organization and management of the same we adopt the following regulations:

TITLE OF THE SOCIETY.

The Society shall be known and distinguished by the name and title of The Philosophical Society of West Chester, Pennsylvania.

ELECTION OF MEMBERS.

1st. Names for membership in this Society shall be voted upon by ballot and no person shall become a member against whom black ballots to the amount of one seventh of the whole voting membership may have been cast.

2d. Any person having received the requisite ballots, by paying the sum of five dollars to the Treasurer and signing this constitution, shall be a member of the Society.

PRIVILEGE OF MEMBERS.

The members of this Society shall have the privilege of bringing such member of their own family, or a friend, as may be thought proper, to any stated meeting of the Society.

MEETINGS.

Stated meetings of the Society shall be held on the second and fourth Thursdays of each month.

OFFICERS.

The officers of the Society shall be a President, two Vice-Presidents, one Recording Secretary, one Corresponding Secretary and a Treasurer. Each officer shall hold his office for one year, and until another is elected to succeed him.

The President shall preside at the meetings, preserve order and decorum in debate, give a casting vote when necessary, and perform all other duties that custom and parliamentary usage may require.

The Vice-Presidents when called upon shall assist the President in the per-

formance of his duty, and during the absence or at the request of the President one of them shall officiate in his place.

The Recording Secretary shall record the minutes and the proceedings ; give due notice of the time and place of each meeting, notify all members of the Society and of committees of their election and appointment and shall call the roll and read the minutes at the stated meetings of the Society.

The Corresponding Secretary shall, if required, hold correspondence with other permanently organized societies both domestic and foreign, also with private individuals on matters of interest to the Society.

The Treasurer shall have the immediate charge and management of the funds and property of the Society and shall pay all claims against the same when approved by the Society.

FUNDS AND EXPENDITURES.

Funds may be obtained by an equal assessment of not more than five dollars annually, this including the first payment of each member, and by voluntary contributions for specific objects ; and these funds shall be appropriated by the Treasurer for paying the rents and necessary expenses incurred by the Society.

PROVISION FOR AMENDMENT.

No amendment or alteration shall be made in any of these articles except at a stated meeting of the Society next subsequent to that at which such amendment or alteration may have been proposed, and then only by a vote of three-fourths of all the members in attendance.

And in acknowledgment of having adopted the foregoing propositions or constitution, and of our willingness to abide by them and to use our endeavors to carry into effect the objects of this Society as above set forth, we have hereunto affixed our names :

John R. McClurg,	Jerome B. Gray,	Wm. W. Stott,
Joseph J. Lewis,	J. Smith Futhey,	H. B. Buckwalter,
John R. Hoskins,	D. Smith Talbot,	C. W. Talbot,
B. T. Jones,	J. W. Barnard,	William Darlington,
Wm. H. Darlington,	Hannum Baldwin,	Frank L. McClurg,
William S. Windle,	C. H. Hannum,	George B. Johnson,
W. T. Barber,	S. G. Willauer,	Oliver Sidwell,
H. T. Fairlamb,	Alfred P. Reid,	S. B. Russell,
Franklin Haines,	Chauncey Darlington,	R. Haines Passmore,
R. Jones Monaghan,	John J. Pinkerton,	A. Sharpless,
Maurice R. Travilla,	Jesse L. Jones,	Richard Darlington,
John Bolton,	S. D. Ramsey,	J. B. Smith.

BY-LAWS.

1. The financial year of this Society shall begin with the first day of January and end on the thirty-first day of December.

2. The President shall select three members of the Society, of whom the Treasurer shall be one, who shall be known as the Board of Finance, to serve one year, and whose duty shall be the assessment of such moneys from the members as may be required to meet the necessary expenses, approve all bills to be paid by the Treasurer, and control the entire financial transactions of the society.

3. Any member who shall have failed to pay the regular assessment made upon him by the Society, by the end of the fiscal year, shall be suspended from membership, and, if not paid within three months, his name shall be dropped from the roll of members. Such member may, however, upon payment of dues, be restored to membership by a vote of a majority of the members present at any subsequent meeting of the Society.

4. The resignation of a member shall not be accepted by the Society while an assessment upon him is unpaid, but, upon receiving his resignation with a refusal to pay his dues, he shall be dropped from the roll of membership for non-payment of assessment.

ORDER OF BUSINESS.

1. The President or, in his absence, one of the Vice-Presidents, shall call to order; or, in case of the absence of all these officers, a chairman shall be appointed, *pro tempore*, for the purpose.

2. Calling the roll by the Secretary.

3. Reading the minutes.

4. Election of new members.

5. Report of committees.

6. Any business requiring early consideration may be introduced.

7. The correspondence shall be read by the Corresponding Secretary.

8. Written communications may be read.

9. Oral communications made and discussed.

10. Unfinished and miscellaneous business.

11. Adjournment.

FORMAL LECTURES BY MEMBERS.

1878.	May 23.	Jurisprudence,	Hon. Joseph J. Lewis.
	June 27.	Ethics,	Rev. Benj. T. Jones.
	"	Origin and Use of Tobacco,	Mr. Alfred Sharpless.
	July 25.	Meteorology,	Prof. Richard Darlington, Ph. D.
	"	Whirlwinds,	J. R. McClurg, M. D.
	Aug. 20.	Philosophy of Silence,	C. Wesley Talbot, Esq.
	Sept. 24	History of Song,	Hon. J. Smith Futhey.
	Oct. 22.	Philology,	Jos. W. Barnard, Esq.
	Nov. 26.	Practical Agriculture,	Mr. R. Haines Passmore.
	"	Agricultural Chemistry,	Mr. Charles P. Hewes.
	"	Original Man,	J. R. McClurg, M. D.
	Dec. 20.	Physiology,	J. R. Hoskins, M. D.
	"	Materialistic Theory of the Origin, Nature and Destiny of the Human Soul,	Rev. Joseph Vincent O'Connor.
	Dec. 24.	The Pardoning Power,	Hon. Wm. Darlington.
1879.	Jan. 14.	Life and Character of Bayard Taylor,	Hon. Jos. J. Lewis.
	Jan. 28.	Psychology,	Alfred P. Reid, Esq.
	Feb. 18.	Antiquity of Man,	J. R. McClurg, M. D.
	Feb. 25.	Religions of the World,	Rev. John Bolton.
	"	Antiquity of Man,	Mr. Alfred Sharpless.
	Mar. 11.	Cryptogamic Botany,	Wm. T. Haines, Esq.
	Mar. 25.	Gods of Ancient Greece,	H. Townsend Fairlamb, Esq.
	Apr. 10.	Sign Boards,	Hon. J. Smith Futhey.
	Apr. 24.	Divinity of Christ,	Rev. Sylvester N. Chew.
	May 22.	Trophies of Science,	Prof. Richard Darlington, Ph. D.
	"	Life and Services of Isaac Thomas, M. D., Dec'd,	Hon. Joseph J. Lewis.
	June 12.	Higher Life,	Mr. Slater B. Russell.
	"	Fungi,	J. R. McClurg, M. D.
	July 10.	Mathematics,	Wm. S. Windle, Esq.
	"	Intermarriage of Relatives,	J. R. McClurg, M. D.
	Sept. 25.	Cross Fertilization of Flowers,	J. R. McClurg, M. D.
	"	Cryptogamic Botany,	Wm. T. Haines, Esq.
	Oct. 9.	Language,	Jos. W. Barnard, Esq.
1880.	Jan. 8.	Memorial of Hon. Wm. Darlington,	Jos. W. Barnard, Esq.

1880.	Jan. 8.	Prevision,	J. R. McClurg, M. D.
	Jan. 23.	Evolution,	Prof. Edward D. Cope.
	Feb. 26.	Evolution,	Rev. John Bolton.
	Mar. 11.	Man's Understanding too short to fathom the mysterious Workings of Omnipotence,	Mr. Caleb S. Cope.
	Apr. 22.	Golden Weddings,	Hon. John W. Forney.
	June 10.	Inaugural Address, Prof. Ric'd Darlington, President Elect.	
	"	Gulf Stream,	Lieut. Henry Clay Nields, U. S. N.
	"	Gulf Stream,	Hon. Joseph J. Lewis.
	July 8.	Od Force,	J. R. McClurg, M. D.
	Aug. 12.	Lime and Its Effects,	Mr. Caleb S. Cope.
	"	Naturalization Laws,	Mr. Benj. F. Crawshaw.
	Sept. 9.	Mental Culture,	Rev. Robert J. Carson.
	"	Landing of Penn,	Hon. Jos. J. Lewis.
	Sept. 23.	Fairy Pipes of Great Britain,	Prof. Edwin A. Barber.
	Oct. 14.	Health and how to preserve it,	Spencer H. Brown, M. D.
	Oct. 28.	Free Trade,	Hon. Jos. J. Lewis.
	Nov. 11.	Origin and Meaning of the names of the days of the week,	Hon. J. Smith Futhey.
	Nov. 11.	Science,	J. R. McClurg, M. D.
	Dec. 9.	Instruments and Methods Employed in Navigation,	Lieut. Henry Clay Nields, U. S. N.
	Dec. 23.	Memorial of Lieut. Henry Clay Nields, U. S. N.,	William T. Haines, Esq.
1881.	Jan. 13.	Success and Its Attainment,	Prof. David M. Sensenig.
	Feb. 10.	Injurious results from Early Excessive Mental training,	Robert R. Underwood, D. D. S.
	Feb. 10.	Traditions of the Scone Stone,	Mr. Slater B. Russell.
	Feb. 24.	Fire Damp in Coal Mines,	Mr. Caleb S. Cope.
	Apr. 28.	A Bad Habit,	Rev. Robert J. Carson.
	May. 26.	Characteristics of Great Men,	Prof. Richard Darlington, Ph. D.
	June 9.	Inaugural Address, Rev. Robert J. Carson, President Elect.	
	June 24.	Moral Perception in the Lower Animals,	Jos. W. Barnard, Esq.
	July 28.	Legal Rights of Married Women in Pennsylvania,	R. Jones Monaghan, Esq.
	Sept. 22.	Is the Human Family One,	Rev. Robert J. Carson.
	Oct. 27.	Ingersollism,	Rev. James M. Guthrie.
	Nov. 10.	Gunshot Wounds,	Spencer H. Brown, M. D.

FORMAL LECTURES BY NON-MEMBERS

UPON INVITATION OF THE SOCIETY.

1878. Oct. 8. Circulation of the Blood,—Illustrated by the Projecting
Microscope,—Prof. Holman, Actuary of Franklin In-
stitute, Philadelphia.
- Nov. 12. Theodora, Charlton T. Lewis, Esq., New York.
1879. Nov. 27. Effect of the Germ Theory upon the Minds of the Present
Day, Prof. Edward F. Moody, of Camden, N. J.
- Dec. 27. Excavations of Troy, by Dr. Schleimann,
Charlton T. Lewis, Esq., New York.
1880. Sept. 23. Bi-Centennial of Pennsylvania,
Edward Shippen, Esq., Philadelphia.
- Nov. 23. Waste Forces, Prof. Wm. T. Wahl, Ph. D., of Philada.
- Dec. 23. Puritans and the Puritan Principles,
Mr. C. B. Webster, West Chester.
1881. Mar. 10. Wasted Power, Rev. Charles G. Ames, Germantown.
- Mar. 31. Philology, Rev. James Frazer, Kennet Square.
- May 12. Circulation of the Blood,—Illustrated by the Projecting
Microscope, Prof. Holman, Philada.
- July 14. Graphic Teaching, Prof. J. W. Burns, Philada.
- Aug. 25. Health, and How to Keep It,
William B. Atkinson, M. D., Philada.
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INFORMAL ADDRESSES BY GUESTS.

1880. Sept. 23. Prof. J. W. Burns, Phila.; Wm. B. Atkinson, M. D., Phila.;
Hon. Eli K. Price, Phila.;—all in reference to the
Pennsylvania Bi Centennial Celebration.
1881. Feb. 24. Reform in Republican Government,
Thomas D. Ingram, M. D., West Chester.
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READINGS.

1878. July 11. Astronomy of the Future, (from the *Living Age*,)
Rev. John Bolton.

1878. Dec. 10. The Human Soul, by Rev. J. V. O'Connor,
Alfred P. Reid, Esq.
1879. Mar. 11. Trichinæ in Pork, (from *Scientific Magazine*,)
William S. Windle, Esq.
- Oct. 23. Some things I saw in London, by Hon. Jos. J. Lewis,
Hon. William B. Waddell.
1880. Mar. 25. Summer Trip in Canada, by Same, Mr. Thos. P. Worrall.
- Mar. 25. Premonition, author not given, J. R. McClurg, M. D.
- Apr. 8. Spiritualism, Extract from lecture by Rev. Joseph Cook,
William T. Haines, Esq.
- Apr. 8. Days of Penn, (an Historical Poem,) Mr. Caleb S. Cope.
- Nov. 11. American Revolution, (A Poem,) Mr. Caleb S. Cope.
- Dec. 23. Memorial of Lieut. Henry Clay Nields, deceased, by Hon.
Jos. J. Lewis, Read by his Emanuensis.
1881. Jan. 27. Ye Microscope of Ye Olden Time, by Prof. Edward F.
Moody, of Camden, N J., J. W. Barnard, Esq.
- Feb. 24. Development of Gaseous Substance, Author not given,
J. R. McClurg, M. D.
- Apr. 14. Mason's and Dixon's Line, by Dr. William Darlington,
C. Wesley Talbot, Esq.
- Apr. 14. Food Properties of Alcohol, by Dr. Robt. C. Smedley,
Mr. George Heed.
- June 9. Why do we undergo Vaccination, from Forney's *Progress*,
J. R. McClurg, M. D.
- June 9. Reply to the above by Caroline H. Spear, M. D., of Phila.,
James Monaghan, Esq.

QUESTIONS REFERRED.

1. Who is the greatest living Poet of this Country?
To Mr. Slater B. Russell.
2. Explain the Dominical Letter?
To Hon. Jos. J. Lewis.
3. What is meant by the Julian Period?
To Prof. Geo. L. Maris
4. What is the difference between Animal Life and Vegetable Life?
To John R. Hoskins, M. D.
5. How many fixed stars are there whose distance from the earth has been
ascertained? What are their names and distances?
To William S. Windle, Esq.

6. Ought Vaccination to be made compulsory ? To J. R. McClurg, M. D.
7. Would it be desirable to so alter the Constitution of Pennsylvania, as to limit the right of Suffrage to those who have learned to read ?
To R. Jones Monaghan, Esq.
8. Is the enactment by the late Legislature of Pennsylvania for the Destruction of Spitz Dogs expedient or proper ?
To J. R. Hoskins, M. D.
9. Is the existence of an Intra Mercurial Planet fully established ?
To Prof. Richard Darlington, Ph. D.
10. What is the number of original Primitive elements ?
To Mr. Chas. P. Hewes.
11. What is the History of the Umbrella ? To C. Wesley Talbot, Esq.
12. Is Electricity a Fluid or a Force ? To Prof. R. Darlington, Ph. D.
13. Ought Education to be made Compulsory ?
To R. Jones Monaghan, Esq.
14. Supposing a Planet carved from the Sun, set spinning on an axis and revolving around the Sun at a distance equal to that of the Earth, would one consequence of the refrigeration of the mass be the developement of Organic forms ?
To Prof. Richard Darlington, Ph. D.
15. Do the Roots of Plants alone, select from the Soil the substances required for the growth of the Plant ; or have Leaves also the power of selection and of asking for what they need ?
To John R. McClurg, M. D.
16. Is the Co-education of the Sexes advisable ?
To Prof. Richard Darlington, Ph. D.
17. Does Timbered Land have the effect of producing Rain Fall ?
To Mr. Henry B. Buckwalter.
18. How many distinct languages are there ? To Jos. W. Barnard, Esq.
19. What is meant by " Old Style " and " New Style " in the computation of time ? To Hon. J. Smith Futhey.
20. From what is the word " Poet " derived, and what is the meaning of its original ? To Mr. Slater B. Russell.
21. When did English begin to be spoken in the Courts of Justice, and who was then King of England ? To Wm. S. Windle, Esq.
22. When was the first English book written in England and by whom ?
To Prof. J. Hunter Worrall.
23. Ought our Normal Schools to furnish instruction to those not intending to teach, and should the State maintain a complete course of education ? To Prof. George L. Maris.

24. Ought the laws against usury to be abolished ?
To Hon. Wm. B. Waddell.
25. Does man exist anywhere, save on the earth ?
To Rev. Sylvester N. Chew.
26. What is the chemical constitution of planetary ether ?
To J. R. McClurg, M. D.
27. What is the difference in the length of days in the planets Mars and Neptune ?
To Prof. R. Darlington, Ph. D.
28. What is the distance of the Polar Star from the Earth, and how long does it take light to traverse that distance ?
To Mr. Hannum Baldwin.
29. Name the different kinds of minerals that have been discovered in Chester county and their precise location ?
To Curtis H. Hannum, Esq.
30. What is the cause of meteoric showers ? To Prof. R. Darlington, Ph. D.
31. By what force are the different planets held in space ?
To John R. Hoskins, M. D.
32. Does heat produce life ? To Rev. John Bolton.
33. What causes springs and wells to overflow ? To Hon. Jos. J. Lewis.
34. Have animals inferior to man any moral perceptions ?
To Jos. W. Barnard, Esq.
35. Ought vaccination to be made compulsory ? To Mr. Jerome B. Gray.
36. What is the cause of heat and cold of the seasons, and what are some of the modifying influences upon the same ?
To C. Wesley Talbot, Esq.
37. What is motion, and when is it imperceptible to the naked eye ?
To James Lynch, Jr.
38. How do we judge of the distance and size of an object ?
To Wm. S. Windle, Esq.
39. Under what circumstances is electricity a source of heat ?
To Prof. R. Darlington, Ph. D.
40. What is the physiological and hygienic effect of the moderate use of tobacco upon the human system ? To Prof. R. Darlington, Ph. D.
41. What is Od Force and its effects ? To J. R. McClurg, M. D.
42. Should our naturalization laws be changed ; if so, in what respect ?
To Mr. B. F. Crawshaw.
43. What effect has lime, if any, when used as a fertilizer in modifying the influence of drought upon grasses ? To Mr. Caleb S. Cope.
44. What benefit, if any, would result to the American people, or any portion of them, by the adoption of a free trade policy ?
To Hon. Jos. J. Lewis.

45. What is the origin of the names of the days of the week ?
To Hon. J. Smith Futhey.
46. Will the United States be benefitted by further immigration ?
To C. W. Talbot, Esq.
47. What are the traditions of the Scone Stone ? To Mr. Slater B. Russell.
48. By what means can Fire Damp be removed from Coal Mines ?
To Mr. Caleb S. Cope.
49. What defects, if any, are in our Educational System ?
To Hon. Jos. J. Lewis.
50. What are the food properties of Alcohol ? To Dr. Robert C. Smedley.

DEBATES.

1878. July 11. Astronomy of the Future—Rev. Mr. Bolton, Rev. Mr. Jones,
Hon. Mr. Lewis, Dr. McClurg.
- Aug. 8. Whirlwinds—Prof. Darlington, Hon. Mr. Lewis.
- Nov. 26. Original Man—Rev. Mr. O'Connor, Hon. Mr. Lewis.
- Dec. 10. The Human Soul—Hon. Mr. Darlington, Prof. Darlington,
Hon. Mr. Lewis, Dr. McClurg and others.
1879. Jan. 28. Psychology—Mr. Reid, Rev. Mr. Jones, Hon. Mr. Lewis,
Wm. Henry Darlington and others.
- Feb. 18. Antiquity of Man—Hon. Mr. Lewis, Prof. Darlington, Dr.
McClurg.
- Feb. 25. Antiquity of Man—Rev. Mr. Bolton, Hon. Mr. Lewis and
others.
- Mar. 25. Gods of Ancient Greece—Hon. Mr. Lewis, Mr. Barnard,
Dr. McClurg.
- Dec. 11. Existence of Human Life elsewhere than on the Earth—Rev.
Mr. Chew, Hon. Mr. Lewis, Dr. McClurg.
1880. Feb. 26. Evolution—Rev. Mr. Bolton, Hon. Mr. Lewis, Prof. Dar-
lington and others.
- May 27. Decline of the Ballot—Mr. Robert Neeley, Prof. Darlington,
C. W. Talbot, Esq.
- Aug. 12. Od Force—Rev. Mr. Carson, Hon. Mr. Lewis, Prof. Dar-
lington, C. W. Talbot, Esq., Dr. McClurg, Dr. Smedley.
- Aug. 12. Naturalization Laws—Hon. Mr. Lewis, Prof. Darlington,
Dr. McClurg, Howard M. Jenkins, Mr. Murphy, Mr.
Crawshaw.

- Sept. 9. Mental Culture—Rev. Mr. Carson, Hon. Mr. Lewis, Prof. Darlington, Dr. McClurg, Mr. George.
1881. Jan. 13. Success—Rev. Mr. Bolton, President Darlington, Hon. Mr. Lewis, Mr. Crawshaw and others.
- Feb. 10. The Scone Stone—President Darlington, Hon. Mr. Lewis, Mr. Barnard.
- Mar. 31. Spelling Reform—Rev. James Frazer, Hon. Mr. Futhey, Hon. Mr. Lewis, Jas. Monaghan, Esq.
- Apr. 14. Alcohol as Food—President Darlington, J. Williams Thorne, C. W. Talbot, Esq., Dr. Smedley, Dr. McClurg.
- Apr. 28. Bad Habits—Rev. Mr. Carson, President Darlington, Dr. Brown, Dr. Ingram, Jas. Monaghan, Esq.
- June 9. Methods of this Association—Rev. Mr. Carson, Prof. Darlington, Mr. Barnard, Dr. McClurg, C. W. Talbot, Esq.
- June 9. Vaccination—Dr. McClurg, Dr. Brown, Mr. Barnard.
- June 24. Animal Intelligence—Mr. Barnard, Rev. Mr. Bolton, Rev. Mr. Carson, Dr. Brown, James Monaghan, Esq., Mr. C. S. Cope, and others.
- July 14. Graphic Teaching—Prof. Burns, Mr. Barnard, and others.
- July 28. Contracts of Married Women—R. Jones Monaghan, Esq., President Carson, Mr. Barnard, Mr. Hayes, Prof. Darlington.
- Sept. 22. Unity of the Human Race—President Carson, Prof. Darlington, Mr. Barnard, Mr. Wm. T. Haines.
- Oct. 13. Causes of Foreign Sympathy on the occasion of the death of James A. Garfield, President of the United States—Mr. Barnard, Prof. Darlington, Rev. M. T. Jefferis, Mr. J. Monaghan, Mr. C. W. Talbot.
- Oct. 27. Ingersollism—Rev. Mr. Guthrie and Mr. Fairlamb.

COMMUNICATIONS.

From Edwin A. Barber, Esq., of Philadelphia, Chairman of the Department of Archæology and Ethnology, of the International Exhibition Council of Education.

From Ezra Michener, M. D., of Chester county.

From Leyden, Germany, intended, doubtless, for Dr. William Darlington, deceased, but received by Hon. William Darlington and laid before this Society.

From Hon. Henry C. Carey, Philadelphia.

From the Pennsylvania Historical Society.

From the Microscopical Society of Camden, N. J., being an invitation to their Soiree.

From Professor Edward D. Cope, Philadelphia.

From Hon. John W. Forney, Philadelphia.

From Benjamin M. Everhart, West Chester.

From a London firm, in reference to books on Infusoria.

From Dr. Charles Schaeffer, Secretary of the Biological section of the Philadelphia Academy of the Natural Sciences, conveying their thanks to this Society for aid at their Soiree, Oct. 15. 1880.

From the Society of Natural Sciences at Reading, Pa., inviting this Society to attend their reception on June 22, 1881.

From the Microscopical Society of Lancaster, Pa., inviting this Society to their annual reception.

From the Biological and Microscopical Society of the Academy of Natural Sciences of Philadelphia, being an invitation to attend their exhibition to be held Nov. 16 and 17, 1881, at the Hall of said Academy.

From the Department of the Interior, at Washington, D. C.

GIFTS TO THE SOCIETY.

1. Indian relics, skull, beads, etc., from Prof. Edwin A. Barber, Mr. Jerome B. Gray, Mr. Harry R. Kervey.
2. Statistical Atlas, from Hon. Wm. Ward.
3. Reports of the Smithsonian Institution, from Hon. Wm. Ward.
4. Books, from Major Powell, Washington, D. C.
5. Several volumes, from Hon. Wm. Ward.
6. Geological and Geographical Surveys of the Territories of Idaho and Wyoming, from Hon. Wm. Ward.
7. Photo-micrographs of Diatoms, from Lieut. Col. John J. Woodward, M. D., Washington, D. C.
8. An introduction to the study of the Indian languages, vol 1, from the Department of the Interior.
9. A pamphlet of their proceedings from January to June, 1881, from the American Philosophical Society.
10. Annual Report of the United States Geological Survey of 1880, from the Department of the Interior at Washington, D. C.

INVENTORY OF PROPERTY.

Carpet, valued at	-	-	-	-	-	\$45 00
2 Square Tables,	-	-	-	-	-	22 00
1 Sofa,	-	-	-	-	-	15 00
1 Perforated Settee,	-	-	-	-	-	7 50
1 Leather Chair,	-	-	-	-	-	15 00
3 Arm Chairs,	-	-	-	-	-	9 00
1 Rocker,	-	-	-	-	-	3 00
3 Camp Chairs,	-	-	-	-	-	4 50
48 Cane Seat Chairs, @ \$2,	-	-	-	-	-	96 00
8 Solid Wooden Chairs, @ \$1 50,	-	-	-	-	-	12 00
13 Perforated Wooden Seats,	-	-	-	-	-	22 75
3 Stools,	-	-	-	-	-	3 00
3 Large Cushions,	-	-	-	-	-	5 00
Book Case,	-	-	-	-	-	10 00
Contents of Book Case, viz :—Upwards of 30 cloth volumes,						
Upwards of 50 pamphlets,						
Shells, beads, and small matters,	-					50 00
Lecturn and Platform,	-	-	-	-	-	10 00
2 Gas Stands, with Tubes and Fixtures, \$10 each,	-				-	20 00
						\$349 75

Perhaps as many as six of the above chairs may be claimed as the private property of individuals.

MICROSCOPES.

There are about twenty-one microscopes belonging to the members of this Society, of the aggregate value of more than two thousand dollars, and at least ten of them are mounted at each meeting

The following gentlemen have from time to time served on the following

COMMITTEES.

On Programme of Exercises—Messrs. Talbot, C. W., Hannum, Sidwell and Baldwin.

- On Library*—Messrs Lewis, Gray, McClurg, Jno. R., Futhey, Revs. Bolton, Jones and Mr. Willauer.
- On Officers*—Messrs. Talbot, C. W., McClurg, John R., Sidwell and Hon. Mr. Darlington.
- On Sections*—Messrs. Lewis, Darlington, Wm., Futhey, McClurg, John R.
- On Finance*—Messrs. McClurg, Talbot, C. W., and Willauer.
- On Minerals*—Messrs. Talbot, C. W., Cochran and Hoopes, Robt. F.
- On First Anniversary*—Messrs. Talbot, C. W., McClurg, John R., Darlington, R., Barnard, Reid, Russell.
- On Treasurer's Account*—Messrs. Darlington, R., Buckwalter, Sr., and Reid.
- On Darlington Resolutions*—Messrs. Barnard, Darlington, R., Talbot, C. W.
- On Darlington Memorial*—Messrs. Barnard, Futhey and Waddell.
- On Finance*—Messrs. Barnard, Buckwalter, Sr., and Heed.
- On Revision of List of Members*—Messrs. McClurg, John R., Heed and Brown, Thos. B.
- On Offices*—Messrs. Talbot, C. W., Hickman and Cope, C. S.
- On Treasurer's Account*—Messrs. Smith, J. Curtis, and Darlington, Wm. Penn.
- On Arrangements*—Messrs. McClurg, John R., Darlington, R., Talbot, C. W., and Hannum.
- On History of This Society*—Messrs. Barnard, J. W., Darlington, Richard, and Monaghan, Jas.

The following named gentlemen have from time to time served the various offices, as follows, viz. :

- President*—Hon. Joseph J. Lewis, Prof. Richard Darlington, Ph. D., Rev. Robert J. Carson.
- President, pro tem*—J. Smith Futhey, C. W. Talbot, J. W. Barnard.
- Vice President*—John R. Hoskins, M. D., Col. Wm. W. Stott, Prof. Richard Darlington, Wm. T. Haines, Rev. John Bolton, J. W. Barnard.
- Recording Secretary*—Wm. S. Windle, Benj. F. Crawshaw, James Monaghan.
- Recording Secretary, pro tem*—Curtis H. Hannum, C. Wesley Talbot, Jerome B. Gray, Joseph W. Barnard, Thomas Louis Ogier, Geo. Heed.
- Corresponding Secretary*—Jerome B. Gray.
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Auditors—Prof. Ric'd Darlington, Henry Buckwalter, Sr., J. Curtis Smith, Wm. Penn Darlington, Alfred P. Reid.

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Recording Secretary—James Monaghan.

Corresponding Secretary—Jerome B. Gray.

Treasurer—George Heed

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Darlington, Hon. Wm.	Monaghan, James,	Windle, William S.,
Darlington, Prof. Richard,	McClurg, Dr. John R.,	Worrall, J. Hunter,
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—GENERAL CATALOGUE OF MEMBERSHIP.—

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Jones, Rev. B. T., Presbyterian Clergy.	Russell, Slater B., Real Estate Agent.
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Michener, Ezra, M. D., Scientist.	‡Spratt, G. M., Physician, Coatesville.
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Monaghan, James, Lawyer.	Stott, Col. William W., Manufacturer.
§Mullin, Jas. T., Merchant Tailor.	Talbot, D. Smith, Lawyer.
McCauley, Maj. Levi G., Sup't.	Talbot, C. Wesley, Lawyer.
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*Niels, Henry Clay, Lt. U. S. Navy.	Travilla, Maurice R., Merchant.
O'Connor, Rev. J. V., Catholic Priest.	Underwood, Robert R., Dentist.
†Phillips, Horace M., Loan Agent.	Underwood, William S., Reg'r of Wills.
Passmore, R. Haines, Loan Agent.	Waddell, Hon. Wm B., Lawyer.
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Ramsey, Samuel D., Lawyer.	§Willauer, Seneca G., Banker.
Reid, Alfred P., Lawyer.	Woodward, Col. J. J., Surgeon U. S.
Robinson, John G., Manufacturer.	Worrall, J. Hunter, Educator.

Those marked thus (*) are now deceased.

Those marked thus (†) resigned.

Those marked thus (‡) never acted as members although duly elected.

Those marked thus (§) are dropped in accordance with the By-Laws.



